

PAT-NO: JP408198830A

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TITLE: PRODUCTION OF FATTY ACID
DIETHANOLAMIDE-TYPE SURFACTANT
HAVING LOW DIETHANOLAMINE CONTENT

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To provide a method for producing the subject surfactant having a low discoloration with the lapse of time by reacting diethanolamine with a fatty acid and a fatty acid ester, and then performing a reverse osmotic treatment to remove unreacted diethanolamine.

CONSTITUTION: This method for producing the objective

surfactant comprises
reacting diethanolamine of formula I with a fatty acid and
a fatty acid ester
of the formula $R<SB>1</SB>COCR<SB>2</SB>$ ($R<SB>1</SB>CO$ is
an 8-22C fatty acid
residue; $R<SB>2</SB>$ is H or a 1-6C alkyl) or formula II
($R<SB>3</SB>CO$ is an
8-22C fatty acid residue), and then performing a reverse
osmotic treatment to
remove the unreacted diethanolamine as an impurity to
obtain the objective
surfactant of formula III ($R<SB>4</SB>CO$ is $R<SB>1</SB>CO$
or $R<SB>3</SB>CO$).

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